

Listing of the Claims

Claim 1. (Original): An apparatus for electrically earthing a load-side conductor in a controller, said apparatus comprising:

a base;

a lug electrically connected to said load-side conductor and fixedly attached to said base;

an earthing bar adapted to contact said lug and provide a ground path from said lug, said earthing bar adapted to move between a charged position and an earthed position;

a ground connection electrically connected to said earthing bar and adapted to earth said earthing bar;

a spring having a first end and a second end, said first end engaging said earthing bar and said second end engaging said base, said spring providing a motive force for moving said earthing bar from said charged position to said earthed position;

a charging mechanism for compressing said spring and moving said earthing bar from said earthed position to said charged position;

an actuating mechanism for releasing said spring and causing said earthing bar to move from said charged position to said earthed position; and

an operator for tripping said actuating mechanism.

Claim 2. (Original): The apparatus of Claim 1 wherein said lug includes a bevel against which said earthing bar rests when said earthing bar is in said earthed position.

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1 Claim 3. (Original): The apparatus of Claim 1 wherein said base includes a positioning
2 member adapted for engaging said lug wherein said lug is held in spaced relation
3 to said base.

1 Claim 4. (Original): The apparatus of Claim 1 wherein said lug includes a flat surface
2 adapted to receive a load-side terminal.

1 Claim 5. (Original): The apparatus of Claim 1 wherein said lug is adapted to receive a
2 line-side conductor.

1 Claim 6. (Original): The apparatus of Claim 1 further comprising a tang on said lug,
2 said tang adapted to fixedly engage a corresponding slot in said base.

1 Claim 7. (Original): The apparatus of Claim 1 wherein said operator includes an
2 indicator with a first indication corresponding to said earthing bar in said charged
3 position and a second indication corresponding to said earthing bar in said earthed
4 position.

1 Claim 8. (Original): The apparatus of Claim 1 wherein said actuating mechanism
2 includes

3 a first member connected to a second member at a first pivot which is constrained to a
4 slot in a third member,

5 said second member has a distal end opposite said first pivot, said distal end pivotably
6 connected to a sliding member,

7 said sliding member fixedly attached to said earthing bar,

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9 said first member having a central pivot held in fixed spatial relation to said base,

10 said third member engaging said charging mechanism,

11 whereby said first member and said second member are held in a fixed position with said
12 spring compressed.

1 Claim 9. (Original): The apparatus of Claim 8 wherein, with said earthing bar in said
2 charged position,

3 said first pivot is fixedly positioned slightly off a line connecting said central pivot of
4 said first member and said distal end of said second member.

1 Claim 10. (Original): The apparatus of Claim 8 wherein said first and second members
2 are adapted to hold said earthing bar in said charged position whereby said first
3 pivot is fixedly positioned slightly off a line connecting said central pivot of said
4 first member and said distal end of said second member.

1 Claim 11. (Original): The apparatus of Claim 8 wherein said first and second members
2 are adapted to hold said earthing bar in said charged position whereby said first
3 and second members form an obtuse angle and said first pivot is fixedly
4 positioned.

1 Claim 12. (Canceled)

1 Claim 13. (Canceled)

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1 Claim 14. (Previously amended) An apparatus for electrically earthing a load-side
2 conductor in a controller, said apparatus comprising:

3 an earthing member connected to ground, said earthing member adapted to move between
4 a charged position and an earthed position in which said load-side conductor is earthed;

5 a spring providing a motive force for moving said earthing member from said charged
6 position to said earthed position, wherein said spring is compressed in said charged position;

7 a sliding member fixedly attached to said earthing member;

8 a first member having a central pivot for rotating thereabout;

9 a second member having a first distal end connected to said first member at a first pivot
10 and an opposite distal end connected to said sliding member at a second pivot; and

11 a third member defining a slot, said first pivot constrained to said slot;

12 whereby movement of said third member causes said first pivot to toggle between a first
13 position corresponding to said charged position and a second position corresponding to said
14 earthed position;

1 Claim 15. (Canceled):

1 Claim 16. (Canceled)

1 Claim 17. (Canceled):

1 Claim 18. (Canceled):